

REMARKS

Claims 1, 5-11 and 15-21 are pending in the application and all stand rejected.

Claims 15 and 16 are currently are canceled.

This is an earnest attempt to put all pending claims in proper form for immediate allowance. Reconsideration and allowance of all pending claims is respectfully requested in view of the following:

Claim Objections

Claims 15-16 are objected to under 37 CFR 1.75(c), as being improper dependent form for failing to further limit the subject matter of a previous claim. Claims 15 and 16 have been cancelled, thereby making these objections moot.

Response to Rejection of Claims – 35 U.S.C. §103

Claims 1 and 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho (U.S. Patent No. 6,148,353) (Cho hereinafter), Schinner (U.S., Patent Application Publication No. 2004/0212822) (Schinner hereinafter), "About SP-Dif or S/PDIF" by Greaves (Greaves hereinafter), and with evidence of inherency provided by Computer Organization and Design, Second Edition, by John Hennessey et al (Hennessey hereinafter).

Claims 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho, Schinner, Greaves and Hennessey as applied to Claim 6 above, and further in view of Markow et al (U.S. Patent No. 6,359,994) (Markow hereinafter).

Claims 11, 15-17 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho, Schinner and Greaves.

Claims 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho, Schinner and Greaves as applied to Claim 16 above, and further in view of Markow.

These rejections are not applicable to the pending claims at least because the references, alone or in combination, fail to disclose ALL of the elements of the pending claims.

Independent claim 1 recites, in part, "a first multi-pin docking connector in a portable portion, wherein only one audio pin of the first multi-pin docking connector is coupled to the audio coder and decoder, and wherein the only one audio pin of the first multi-pin docking connector is coupled to the audio coder and decoder via the unidirectional S/PDIF digital audio output; a second multi-pin docking connector in a docking station, wherein only one audio pin of

the second multi-pin docking connector is coupled to the only one audio pin of the first multi-pin docking connector; and a digital audio receiver to convert S/PDIF digital audio to analog audio and including a unidirectional S/PDIF digital audio input, wherein the digital audio receiver is located at the docking station and coupled to the only one audio pin of the second multi-pin docking connector via the unidirectional S/PDIF digital audio input." To this, the rejection on page 3 of the Office Action mailed March 13, 2008 states that "[a]s S/PDIF uses only a single conductor (See Page 1 Paragraphs 2-3 [of Greaves]), the use of S/PDIF as the unidirectional digital audio link would necessarily only allow a single audio pin of the docking connector to be coupled to the audio coder and decoder through the S/PDIF link, and a single audio pin of the docking connector to be connected to the digital audio receiver through the S/PDIF link." This argument is respectfully traversed.

Independent claims 11 and 21 recite, in part, "wherein the docking interface comprises a first multi-pin docking connector coupled to an audio coder and decoder using only one audio pin of the first multi-pin docking connector, and wherein the only one audio pin of the first multi-pin docking connector is coupled to only one audio pin of a second multi-pin docking connector, and wherein the second multi-pin docking connector is coupled to a digital audio receiver using the only one audio pin of the second multi-pin docking connector." To this, the rejection on page 7 of the Office Action mailed March 13, 2008 states that "[a]s S/PDIF uses only a single conductor (See Page 1 Paragraphs 2-3 [of Greaves]), the use of S/PDIF as the digital audio signal format would necessarily only allow a single audio pin of the docking connector to be coupled to the audio coder and decoder through the S/PDIF link, and a single audio pin of the docking connector to be connected to the digital audio receiver through the S/PDIF link." This argument is respectfully traversed.

As the PTO recognizes in MPEP §2142:

The Examiner bears the initial burden of factually supporting any *prima facie* conclusion of obviousness. If the Examiner does not produce a *prima facie* case, the applicant is under no obligation to submit evidence of nonobviousness.

The USPTO clearly cannot establish a *prima facie* case of obviousness in connection with the amended claims for the following reasons:

35 U.S.C. §103(a) provides that:

[a] patent may not be obtained...if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.... (emphasis added)

Thus, when evaluating a claim for determining obviousness, all limitations of the claim must be evaluated. However, it is submitted that the references, alone, or in any combination, at least, do not teach the elements of “. . . only one audio pin of the first multi-pin docking connector . . . ” of the pending claims, as recited above, and in independent claims 1, 11 and 21, and further defined throughout the figures and specification of the pending application.

To the contrary, the cited portion of the reference purported to teach these elements, reads as follows:

The physical link for S/PDIF carries a Biphase Manchester Coded stream. Manchester Coding is a class of line coding methods which combine a data stream with a clock on a single channel where there are up to two transitions on the line for each bit conveyed. With Biphase Manchester, there is a line transition at each end of a bit period and a central transition if the data is a one. For CD audio at 44.1 Ksps the line rate is 5.6448 megabaud and the effective data rate is 2.8224 Mbps or 352.8 kilobytes per second

RCA/phono sockets are commonly used for copper S/PDIF links, using a line level of about 0.5 volts and transformer isolation at both ends. As mentioned below, pro-audio devices may often use XLR connectors to carry the signal and they also use an AES/EBU extended subcode [].

Page 1, Paragraphs 2-3 of Greaves.

Thus, the only mention of the term “single” refers to a “single channel”. As commonly known by those having ordinary skill in the audio art would surely understand that a single audio channel requires two conductors. These are commonly referred to as a “+” conductor and a “-” conductor for the audio signal. Therefore, the phrase “single channel” fails to teach “. . . only one audio pin of the first multi-pin docking connector . . . ” as recited in the pending claims.

The cited section of Greaves also mentions RCA/phono sockets and XLR connectors. Here again, it is commonly known in the art that both RCA/phono connectors and XLR connectors used in audio require two or more conductors. This is evidenced on Page 1, Paragraph 6 of Greaves, which states “. . . XLR connectors to carry S/PDIF over **differential pair cable**. . . ” Therefore RCA/phono sockets and XLR connectors fail to teach “. . . only one audio pin of the first multi-pin docking connector . . . ” as recited in the pending claims.

It is submitted that the only finding of a single signal carrying device is of a "optic fibre". Page 2, paragraph 2 of Greaves. However, Paragraph 2 continues that the optic fibre is "non-conducting." Therefore, it is submitted that the "optic fibre" of Greaves could not teach the use of only one audio pin, as recited in the pending claims.

Therefore, it is submitted that independent claims 1, 11 and 21 and their respective dependent claims are allowable.

In light of the above, it is impossible to render the subject matter of the claims as a whole obvious based on a single reference or any combination of the references, and the above explicit terms of the statute cannot be met. As a result, the USPTO's burden of factually supporting a *prima facie* case of obviousness clearly cannot be met with respect to the claims, and a rejection under 35 U.S.C. §103(a) is not applicable.

There is still another compelling, and mutually exclusive, reason why the references cannot be combined and applied to reject the claims under 35 U.S.C. §103(a).

The PTO also provides in MPEP §2142:

[T]he Examiner must step backward in time and into the shoes worn by the hypothetical "person of ordinary skill in the art" when the invention was unknown and just before it was made. In view of all factual information, the Examiner must then make a determination whether the claimed invention "as a whole" would have been obvious at that time to that person. ...[I]mpermissible hindsight must be avoided and the legal conclusion must be reached on the basis of the facts gleaned from the prior art.

In combining multiple references for a 103 rejection, the Supreme Court has ruled that the "teaching, suggestion, or motivation (TSM) test" still applies, but should be used in a more "expansive and flexible" manner. *KSR Int'l. Co. v. Teleflex Inc.*, 127 S. Ct. 1727, 1739. The Court stated that "a patent composed of several elements **is not proved obvious merely by demonstrating that each of its elements was, independently, known in the prior art.** Although common sense directs one to look with care at a patent application that claims as innovation the combination of two known devices according to their established functions, it can be important to identify a **reason that would have prompted a person of ordinary skill in the relevant field to combine the elements in the way the claimed new invention does.** This is so because inventions in most, if not all, instances rely upon building blocks long since uncovered, and claimed discoveries almost of necessity will be combinations of what, in some sense, is already known." *Id.* at 1741, emphasis added.

In the present case, the Examiner has not expressed any reason why a person of ordinary skill in art would combine the references in the way the claimed new invention does.

Thus, in the present case it is clear that the USPTO's combination arises solely from hindsight based on the present disclosure without any reason why a person of ordinary skill in the art would combine the references as required by the claims. Therefore, for this mutually exclusive reason, the USPTO's burden of factually supporting a *prima facie* case of obviousness clearly cannot be met with respect to the claims, and the rejection under 35 U.S.C. §103(a) is not applicable.

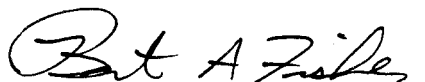
Therefore, independent claims 1, 11 and 21 and their respective dependent claims are submitted to be allowable.

In view of all of the above, the allowance of all pending claims is respectfully requested.

The Office Action contains characterizations of the claims and the related art to which the Applicant does not necessarily agree. Unless expressly noted otherwise, Applicants decline to subscribe to any statement or characterization in the Office Action.

The Examiner is invited to call the undersigned at the below-listed telephone number if a telephone conference would expedite or aid the prosecution and examination of this application.

Respectfully submitted,



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